

WDR Series 60W ~ 480W Slim with 240VAC~415VAC Input



5V, 12V, 48V also available

Power Supply Features

- Single and two phase wide input range
180~550VAC, 254~780VDC
- Built-in active PFC (WDR-240/480)
- Protection: Short circuit / Overload /
Over voltage / Over temperature
- Cooling by free air convection
- DC output voltage adjustable
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- Over voltage category III (WDR-60)
- EN61000-6-2 (EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 3 year warranty

General Specifications (Please refer to www.procontechology.com.au for detailed specs)

Model No.	WDR-60	WDR-120	WDR-240	WDR-480
AC input voltage range	180~550VAC (single and two phase); 254~780VDC			
AC inrush current (max.)	Cold start, 50A			
DC adjustment range	5V: 5~6V, 12V: 12~15V, 24V: 24~29V, 48V: 48~58V	12V: 12~15V, 24V: 24~29V, 48V: 48~58V	24V: 24~28V, 48V: 48~55V	
Overload protection	Hiccup mode when Vo <50%, otherwise constant current limiting, auto-recovery	105~130% rated output power, constant current limiting, auto-recovery	105~130% rated output power, constant current limiting, unit will shut down after 3 sec.; auto-recovery after 1 minute, if the fault condition is removed	
Over voltage protection	Range	5V: 6.2~7.2V, 12V: 16~18V, 24V: 29~37V, 48V: 56~65V (see data sheet)		
	Type	Shut down o/p voltage, re- power on to recover	Shut down o/p voltage, re-power on to recover	Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed
Over temp. protection	Shut down output voltage, recovers automatically after temperature goes down			
Withstand voltage	I/P-O/P: 3kVAC (4.7kVAC for WDR-60), I/P-FG: 2kVAC (2.5kVAC for WDR-60), O/P-FG: 0.5kVAC, O/P-DC OK: 0.5kVAC			
Isolation resistance	100MΩ (min.) @500VDC			
Working temperature	-30°C ~ +85°C*	-25°C ~ +70°C*	-30°C ~ +70°C (*refer to output derating curve)	
DC OK signal	Relay Contact 30VDC 1A resistive			
Leakage current	< 2mA at 530VAC	< 3.5mA at 530VAC		
Vibration	10~500Hz, 2G 10 minutes / 1 cycle, period of 60 minutes each a long X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
Safety standards	UL61010, TUV BS EN/EN61558-2-16, AS/NZS62368.1, EAC TP TC 004	UL508, AS/NZS62368.1, EAC TP TC 004, BS EN/EN62368.1 approved; Design refer to GL		
EMC standards	BS EN/EN55032 class B, EN61000-3-2, 3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61000-6-2 (EN50082-2), EN61204-3, EAC TP TC 020, heavy industry level			
Connection	I/P: 3 poles, O/P: 4 poles screw terminals		I/P: 3 poles, O/P: 6 poles screw terminals	
Dimensions (WxHxD)	32x125.2x102mm	40x125.2x113.5mm	63x125.2x113.5mm	85.5x125.2x128.5mm
Weight	0.45kg	0.65kg	1.06kg	1.7kg

WDR-60 Series



Model No.	Output	Tol.	R&N	Eff.
WDR-60-5	5V, 0~10A	±1.5%	100mV	83.5%
WDR-60-12	12V, 0~5A	±1.5%	120mV	86.5%
WDR-60-24	24V, 0~2.5A	±1.0%	150mV	89.0%
WDR-60-48	48V, 0~1.25A	±1.0%	200mV	90.5%

WDR-240 Series



Model No.	Output	Tol.	R&N	Eff.
WDR-240-24	24V, 0~10A	±1.0%	150mV	91%
WDR-240-48	48V, 0~5A	±1.0%	150mV	91%

WDR-120 Series



Model No.	Output	Tol.	R&N	Eff.
WDR-120-12	12V, 0~10A	±1.5%	120mV	89.5%
WDR-120-24	24V, 0~10A	±1.0%	120mV	91.0%
WDR-120-48	48V, 0~5A	±1.0%	150mV	92.0%

WDR-480 Series



Model No.	Output	Tol.	R&N	Eff.
WDR-480-24	24V, 0~20A	±1.0%	100mV	92%
WDR-480-48	48V, 0~10A	±1.0%	150mV	93%